

# SOSTENIBILITÀ. È ORA DI AGIRE.

PER UNA TRANSIZIONE ENERGETICA EQUA ED INCLUSIVA IN ITALIA ED EUROPA

## PER UNA TRANSIZIONE ENERGETICA EQUA ED INCLUSIVA IN ITALIA ED EUROPA

Presentazione dello studio Eurelectric "E-quality: shaping an inclusive energy transition"

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**Webinar co-organised by Enel Foundation, Elettricità Futura and Eurelectric**

Online, 6 October 2020

Presentation of the Eurelectric study "E-quality: shaping an inclusive energy transition"

**Focus on the Italian Results**

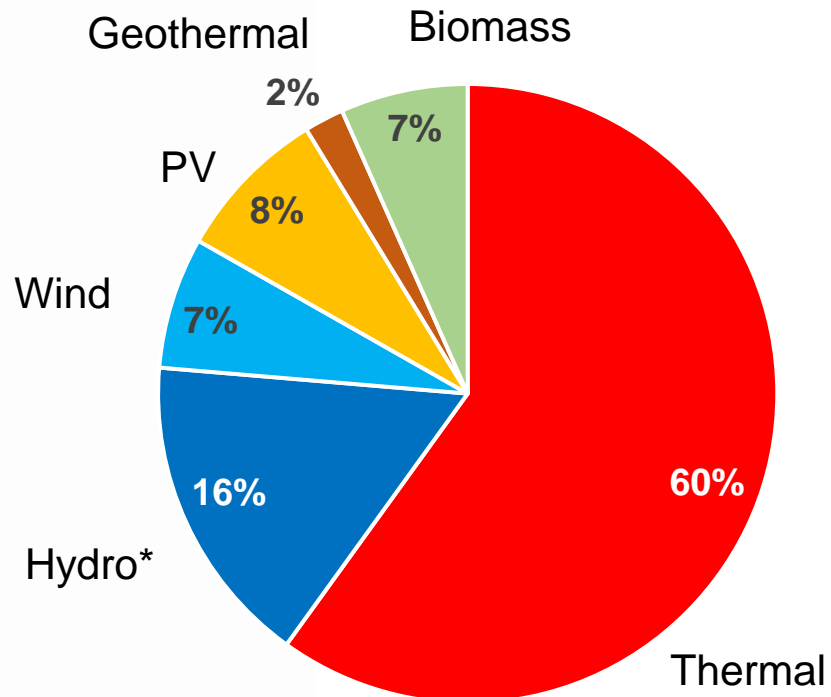
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**Alessio Cipullo, European Affairs and Studies**

- Setting the scene: Italian power sector and 2030 targets
- E-quality study results for Italy

The electricity production by RES in Italy was equal to 39.4% of the total in 2019

**BREAKDOWN OF GROSS ELECTRICITY  
PRODUCTION BY SOURCE (2019)**



**OVERALL GROSS ELECTRICAL ENERGY  
PRODUCTION IN ITALY (2019):**

**293,853 GWh** (+1.4% vs 2018)

**GROSS ELECTRICAL ENERGY PRODUCTION BY  
RES (2019):**

**115,778 GWh** (39.4% of total)

**Italy has a balanced generation mix, ready for the energy transition**

*Source: EF elaborations on Terna's 2019 annual data*

*RES = Renewable Energy Sources*

*\*Note: Hydro percentage in the histogram includes pumping production (equal to 0,6% of the total)*

# Clean Energy Package vs Green Deal 2030 EU Objectives

|   | Clean Energy Package | Green Deal |
|---|----------------------|------------|
| <b>Minimum GHG total emissions reduction wrt 1990</b>     | 40%                  | 55%*       |
| <b>RES share on the Gross Final Energy Demand</b>         | 32%                  | 40%**      |
| <b>Energy efficiency targets wrt PRIMES 2007 scenario</b> | 33%                  | 36%**      |

Current Italian 2030 objectives\*\*\* according to the Clean Energy Package are  
30% for RES share and 43% for energy efficiency  
**These are set to become more ambitious with the Green Deal scenario**

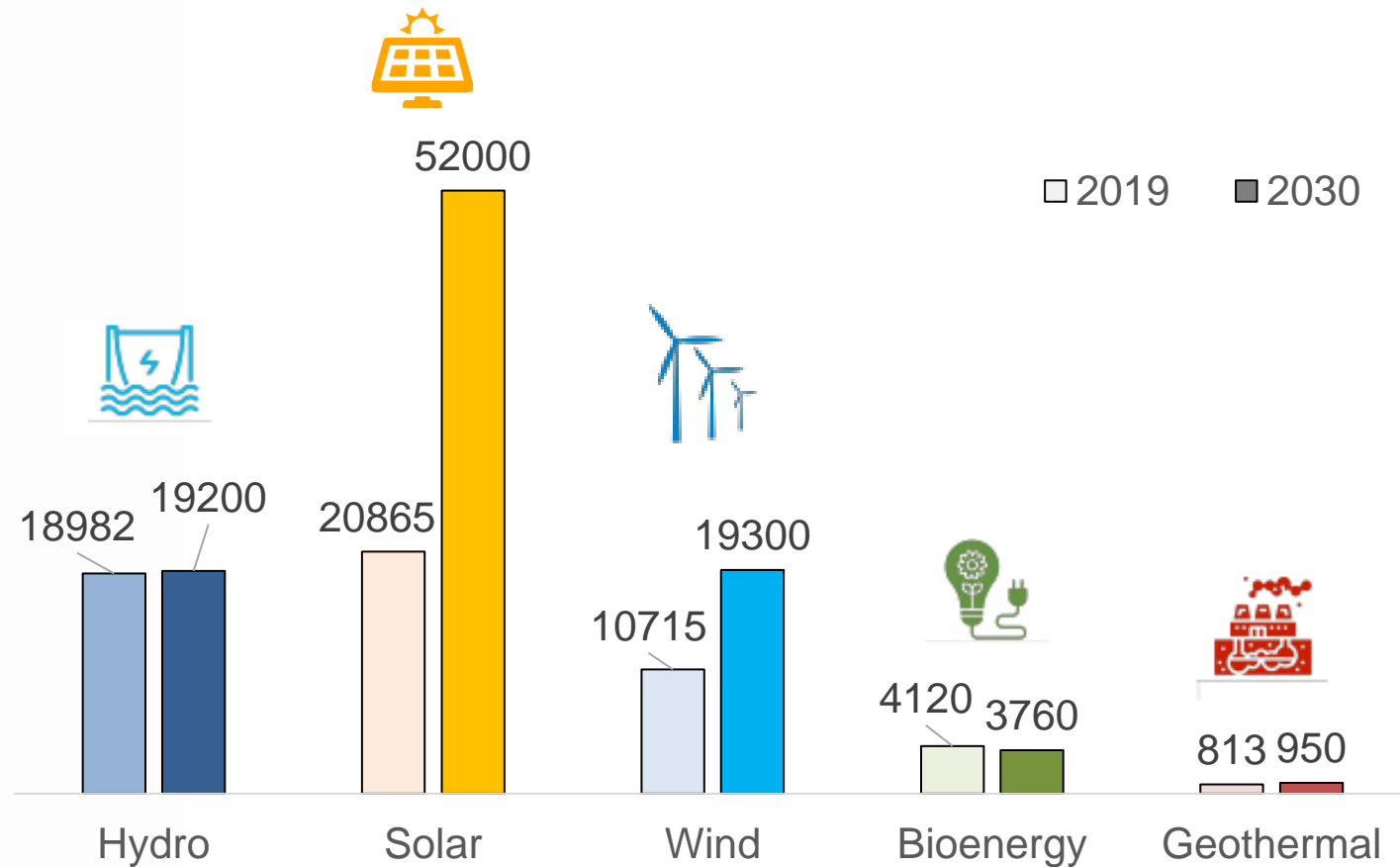
\* Official proposal by the European Commission – September 2020

\*\*Initial estimates based on Green Deal announcements by the European Commission and SolarPower Europe sources – September 2020

\*\*\* Italian National Energy and Climate Plan (NECP) – December 2019

# RES 2030 objectives according to the Italian NECP

## COMPARISON OF EXPECTED RES 2030 CAPACITY VS 2019 – CEP SCENARIO [MW]



**+40 GW**  
RES capacity  
needed

According to the  
current Italian NECP

According to preliminary EF estimates, at least **+65 GW RES capacity** will be needed in the 2030 Green Deal Scenario, with **up to 100 Billion euros** cumulative investments and **50,000 new permanent jobs** across the power sector in Italy

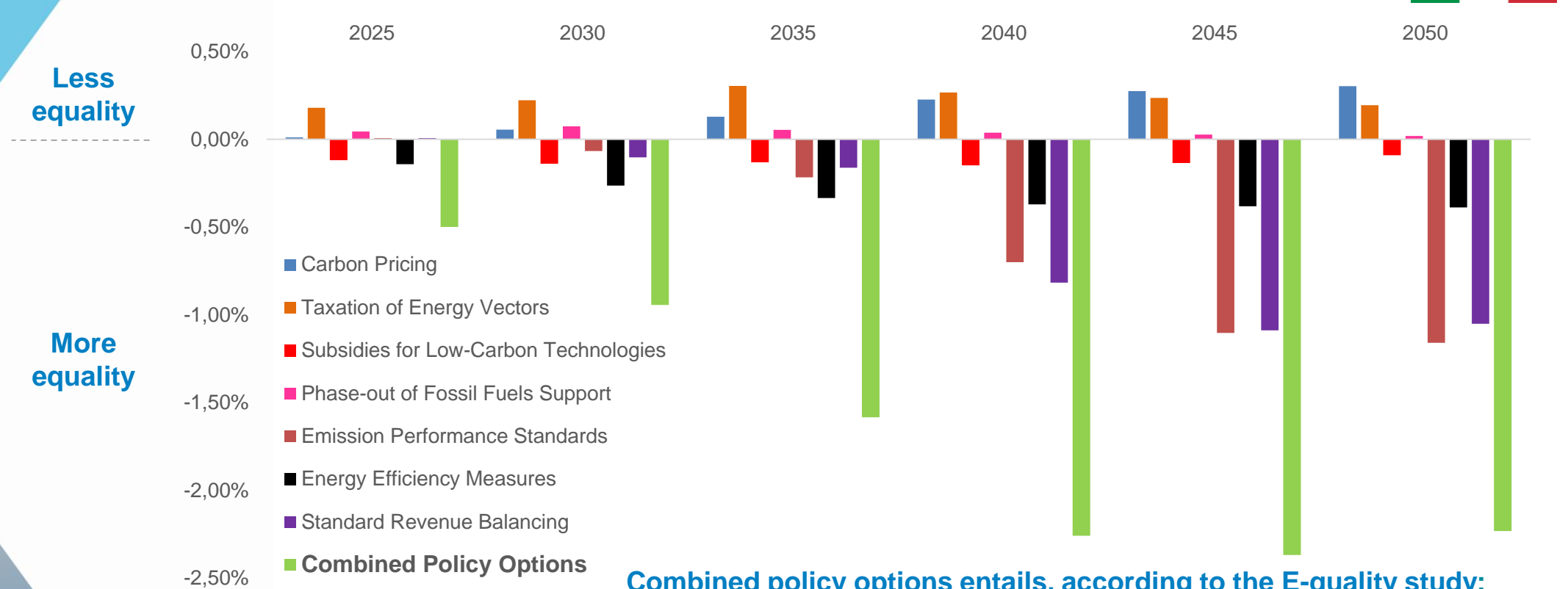
Source: Italian National Energy and Climate Plan (NECP) – December 2019, Terna



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# The combined policy option can lead to more equality in Italy

## GINI INDEX VARIATION IN ITALY – COMPARISON AMONG OPTIONS



### Combined policy options entails, according to the E-quality study:

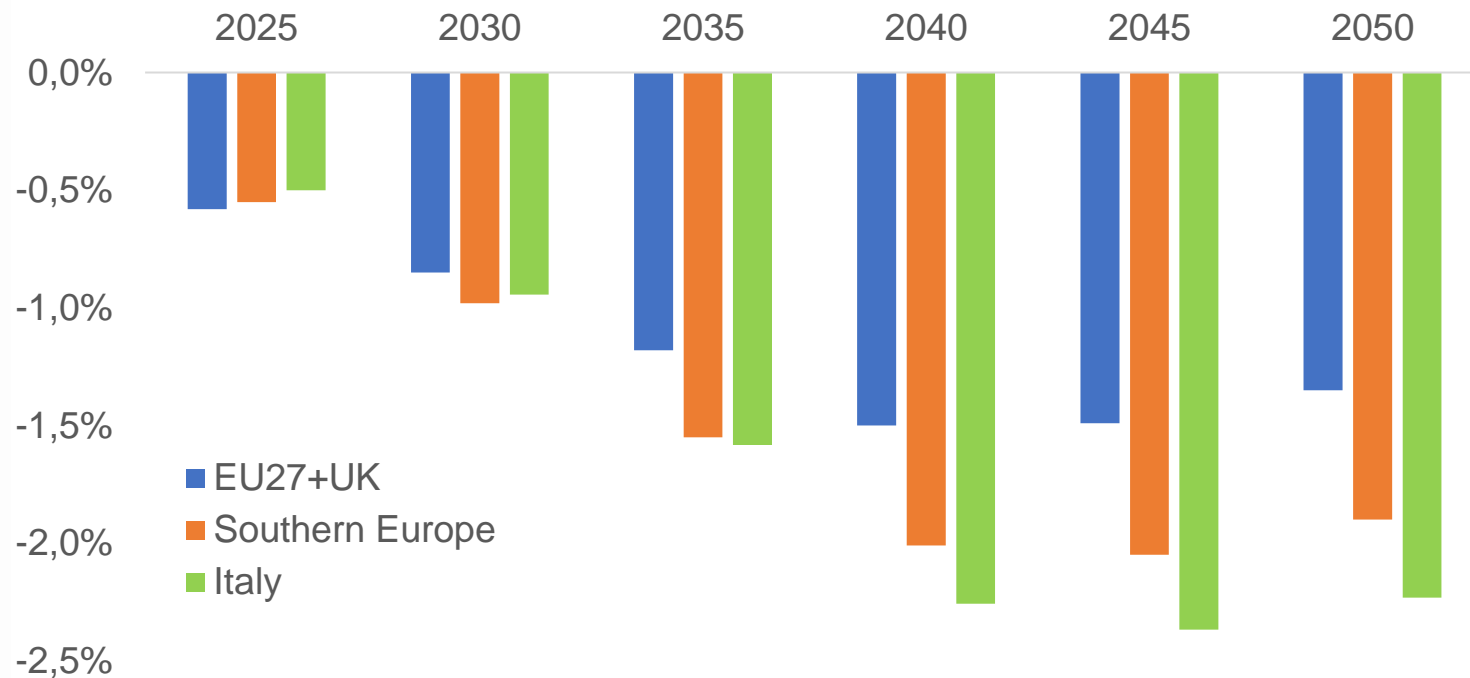
- Lump-sum transfers or lowering VAT / taxes on electricity
- Targeted energy efficiency measures
- Job retraining programmes
- Funding of subsidies for new low-carbon technologies via general taxation

Source: "E-quality: shaping an inclusive energy transition" study – Eurelectric, 2020



## Comparing distributional effects across Areas...

### GINI INDEX VARIATION - COMBINED POLICY OPTIONS



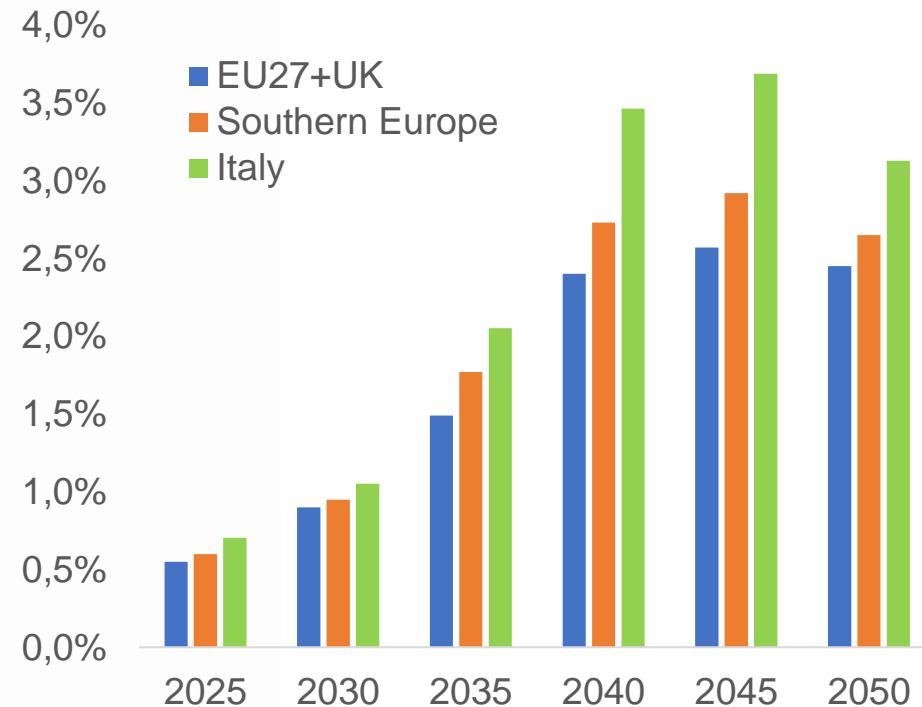
...Italy would show **progressive effects consistent with EU27+UK and Southern Europe results,**  
with above-average positive effects in the longer term

Source: "E-quality: shaping an inclusive energy transition" study – Eurelectric, 2020

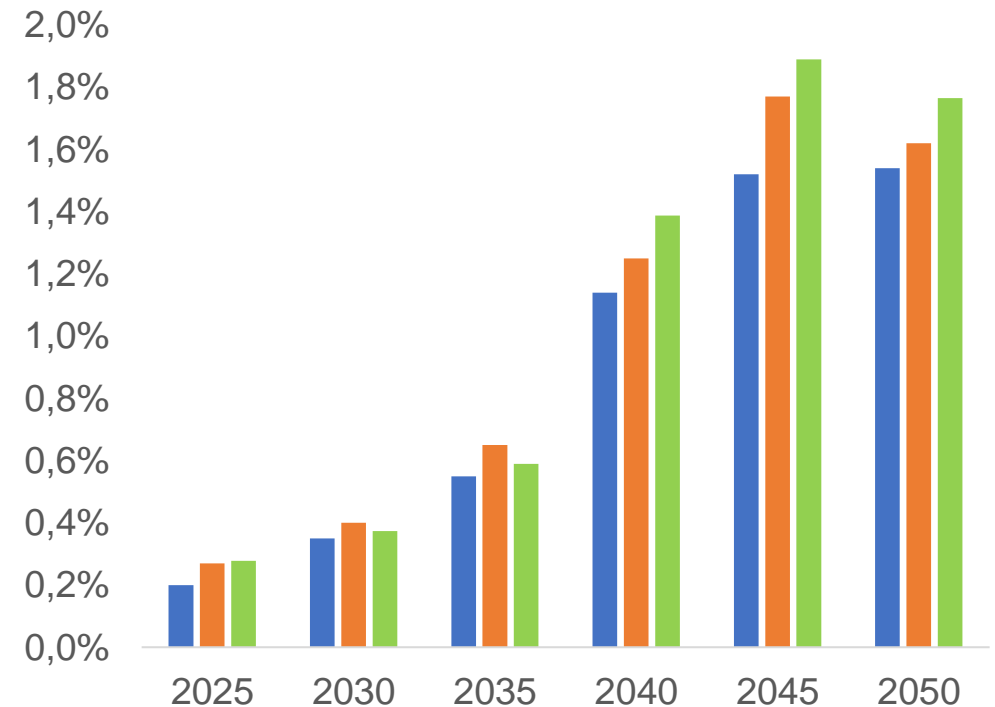
# Comparing GDP and Total Employment impacts across Areas...

## GDP (LEFT) AND TOTAL EMPLOYMENT (RIGHT) VARIATION - COMBINED POLICY OPTIONS

GDP Variation



Total employment Variation



...Italy would benefit from a **bigger positive impact in terms of GDP and similar effects on Total Employment**, compared with EU27+UK and Southern Europe

Source: "E-quality: shaping an inclusive energy transition" study – Eurelectric, 2020

- Italy has a **balanced generation mix**, ready for the **energy transition** towards 2030 targets and beyond
- **100 Billion euros cumulative investments** and **50,000 new permanent jobs** foreseen in the Italian power sector by 2030 in the Green Deal Scenario
- Italy has started implementing measures to reduce inequality and boost economy, such as “**Bonus Sociale**” and the extension of the **Ecobonus** for energy efficiency
- Implementing the **combined policy package** proposed by the E-quality study will lead to **positive distributional effects** in terms of more equality, GDP and Employment in Italy and Europe



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